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APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,865	02/24/2004	Isao Hayashi	1232-5307	3674
27123 MORGAN & F	590 08/02/2007 NNEGAN, L.L.P.		EXAMINER	
3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			BOATENG, ALEXIS ASIEDUA	
			ART UNIT	- PAPER NUMBER
			2838	
			MAIL DATE	DELIVERY MODE
			08/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary 10/786,865					
Alexis Boateng 2838					
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on <u>09 May 2007</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>2-17</u> is/are pending in thé application.					
4a) Of the above claim(s) <u>2-16</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>17</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida
 (U.S. 2004/0090209) in view of Trembley (U.S. 2004/0036445).

Regarding claim 17, Nishida discloses wherein a power supply device having a DC output unit, which performs outputting under constant-voltage- current control comprising:

a constant-current control device which performs a first constant-current control operation for maintaining a second current value which is larger than the first current value (paragraph [0031]);

a voltage detecting device which detects a voltage drop of the DC output, which is caused by a rush current (paragraphs [0010], [0011] and [0052]).

a switching device which switches a constant current control operation from the first constant-current control operation to the second-constant current control operation when said voltage detecting device detects a voltage drop of the DC output while said constant current control device performs the first constant-current control operation (paragraph [0054]). Nishida discloses the invention as claimed, but does not disclose the remainder. Trembley discloses in

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paragraph [0031] wherein the temperature is measured by a temperature detecting device, figure 4 item 414b, and charging is switched based off of the temperature readings. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Nishida system with the Trembley system proper charging is insured and the battery does not become damaged.

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Response to Arguments

3. Applicant's arguments filed 5/04/07 have been fully considered but they are not persuasive. Regarding claim 17, the applicant argues that the combination of the Nishida and Trembley references do not disclose wherein a voltage detecting device which detects a voltage drop of the DC output which is caused by a rush current.

Nishida discloses in paragraphs [0010] and [0011] wherein the charging current is monitored and causes a voltage drop, which is detected by the voltage detecting device. The Nishida reference discloses in paragraph [0054] wherein the switching device switches from a first constant current control operation to the second constant-current control operation and the voltage drop is detected. Trembley discloses in paragraph [0031] wherein the constant current operation switched based off of temperature readings, which reads on the applicant submitted claims.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexis Boateng whose telephone number is (571) 272-5979. The examiner can normally be reached on 8:30 am - 6:00 pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on (571) 272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AB

KARL EASTHOM
SUPERVISORY PATENT EXAMINER